IBM SolutionsConnect 2013

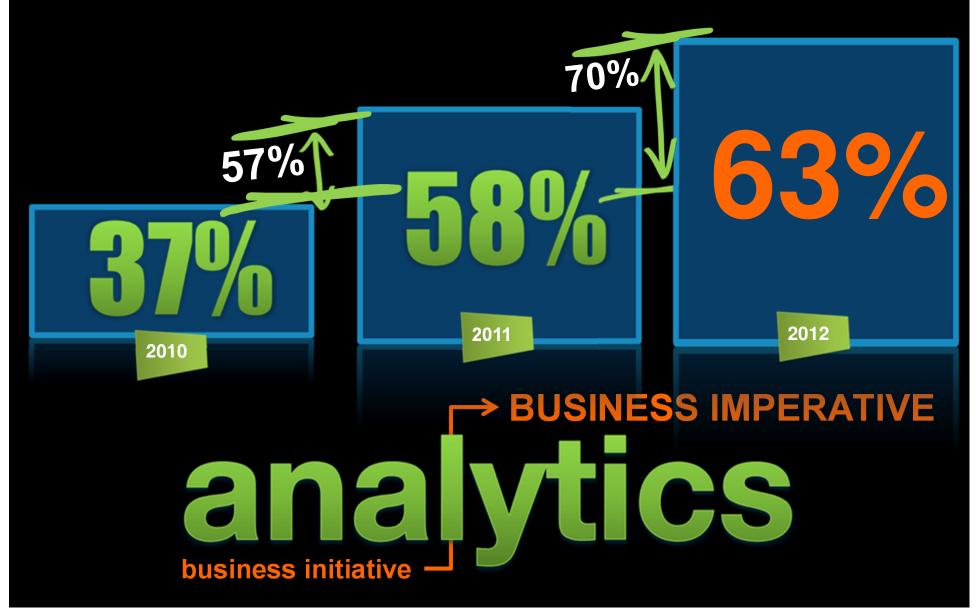
Turning Opportunity into Outcomes.



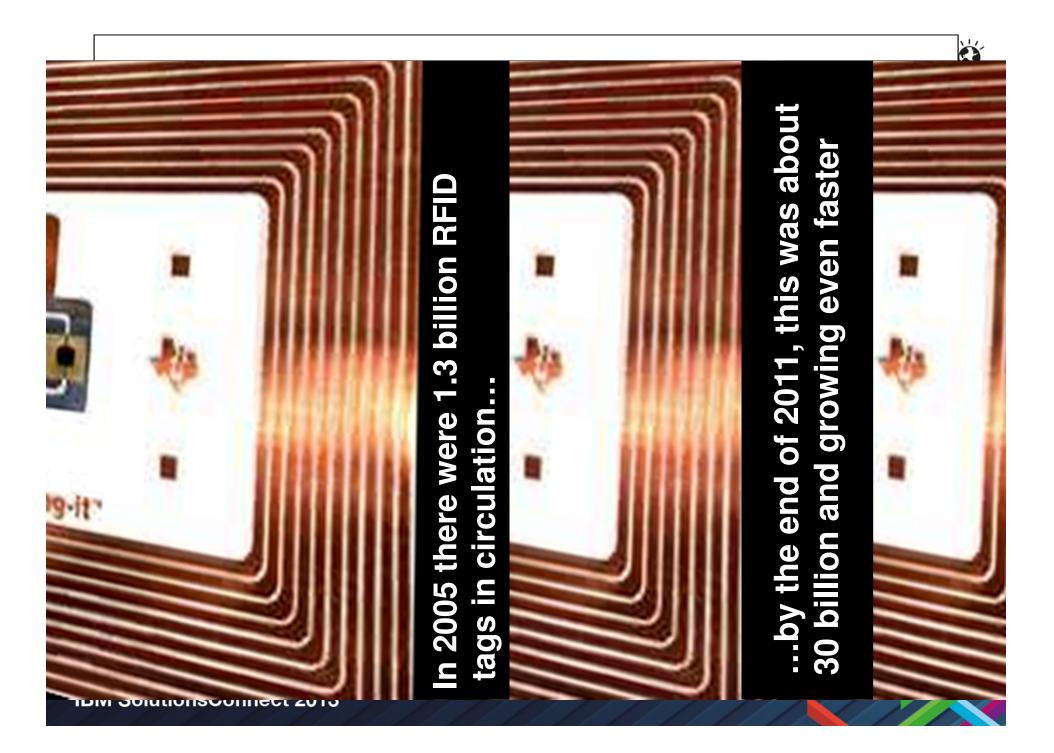
The big deal about big data Patrick Billens



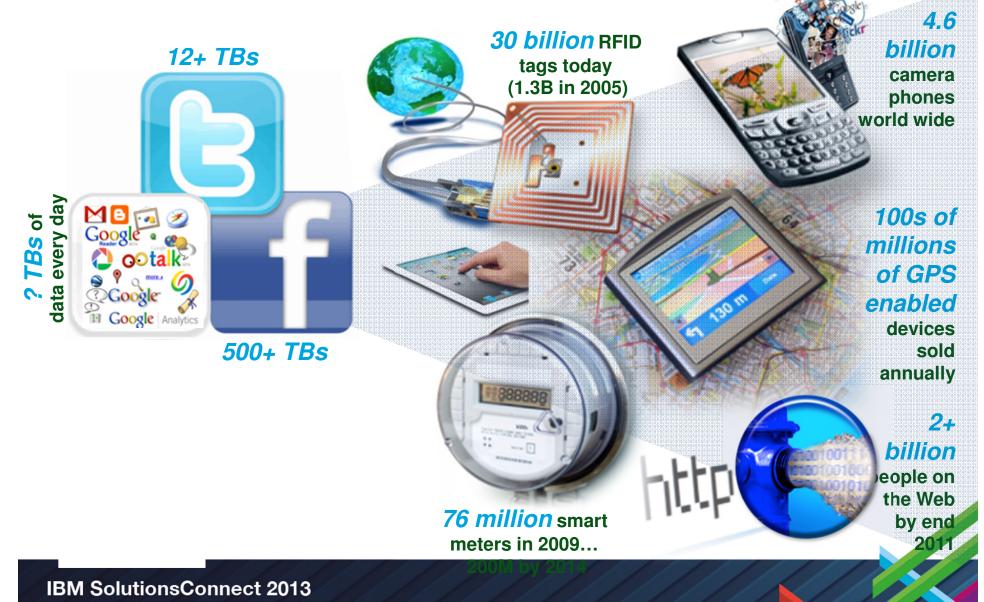
The number of organizations who see analytics as a competitive advantage is growing.



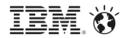
IBM delivers a governable, consumable Big Data platform that's steeped in analytics for data in-motion and data at-rest.

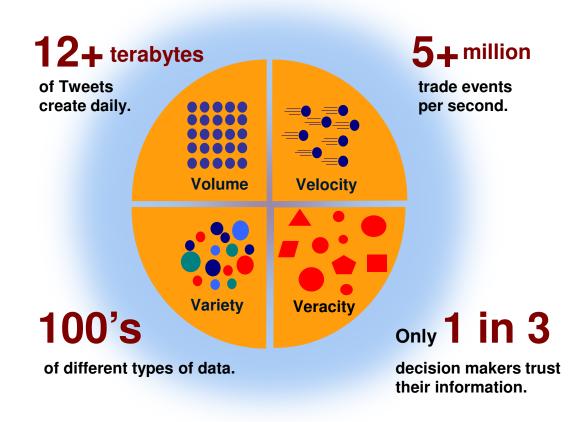


The Social Layer in an Instrumented Interconnected IBM. © World

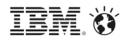


We've Moved into a New Era of Computing





The Big Data Conundrum



- The economies of deletion have changed....
 - Leading us into new opportunities and challenges
- The percentage of available data an enterprise can analyze is decreasing proportionately to the available to that enterprise
 - Quite simply, this means as enterprises, we are getting "more naive" about our business over time
- Just collecting and storing "Big Data" doesn't drive a cent of value to an organization's bottom line



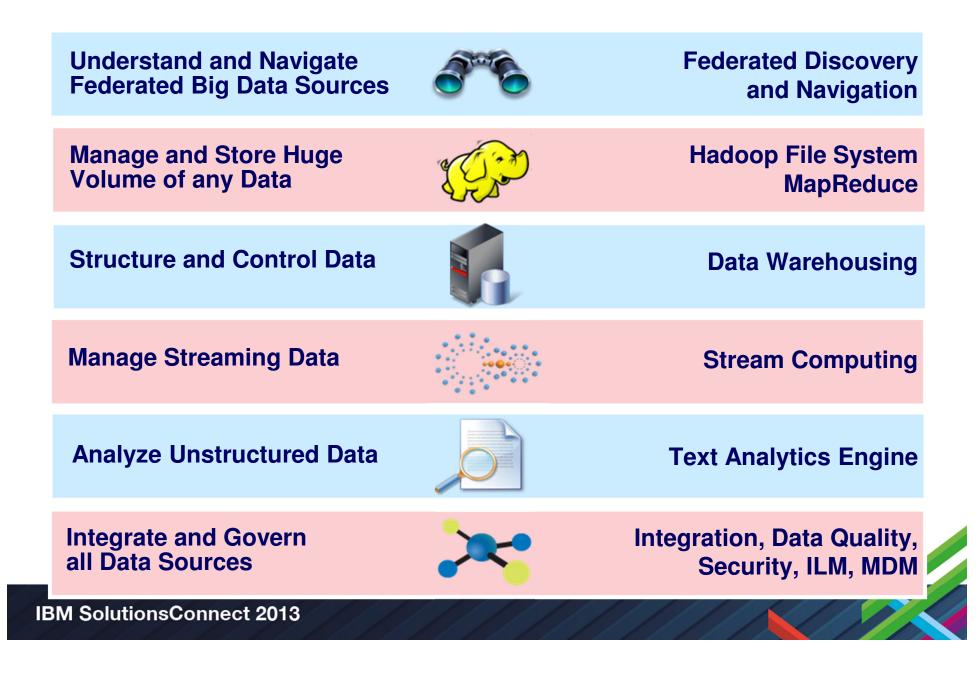
Applications for Big Data Analytics





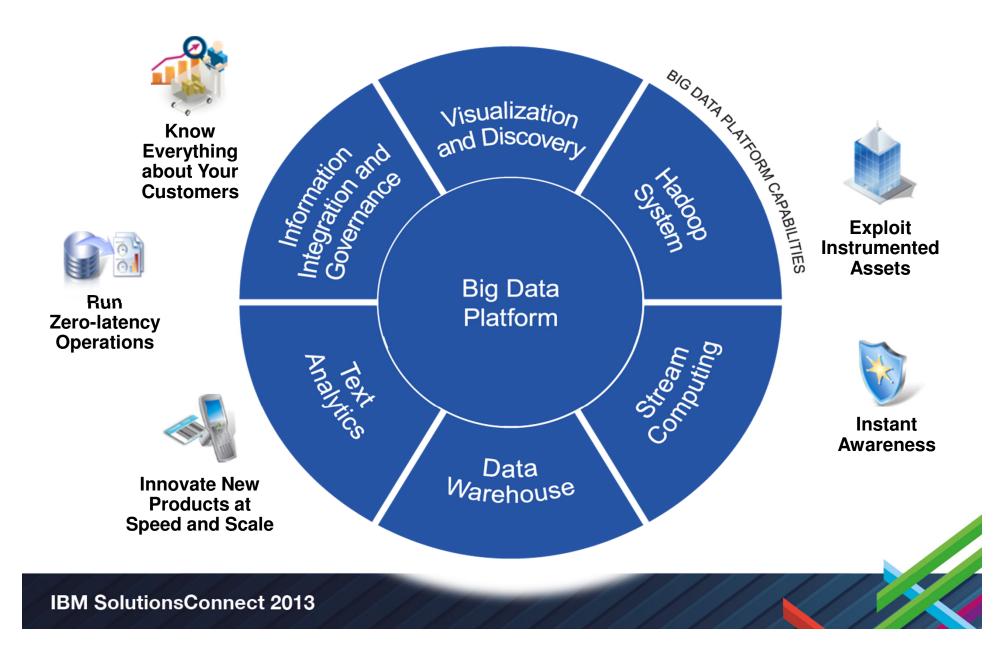
The Big Data Platform Manifesto





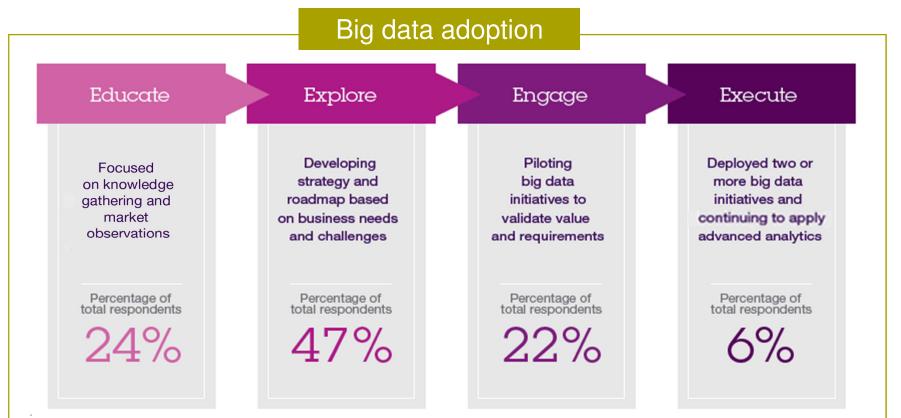
Entry Points to a Big Data Project





A recent Institute for Business Value study highlights how organizations are adopting big data in four phases



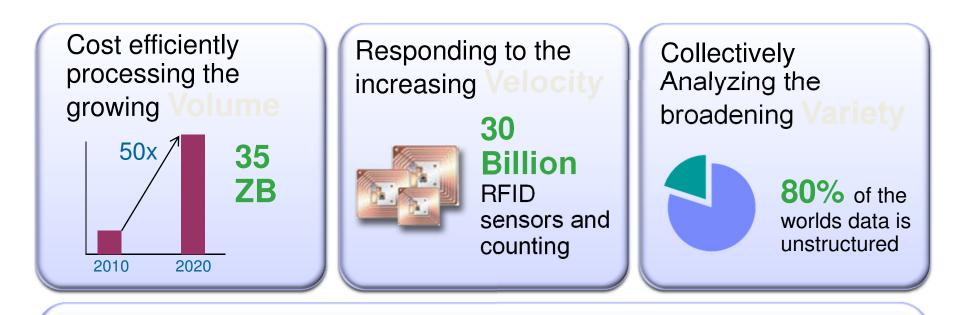


When segmented into four groups based on current levels of big data activity, respondents showed significant consistency in organizational behaviors Total respondents n = 1061

Totals do not equal 100% due to rounding

The characteristics of big data

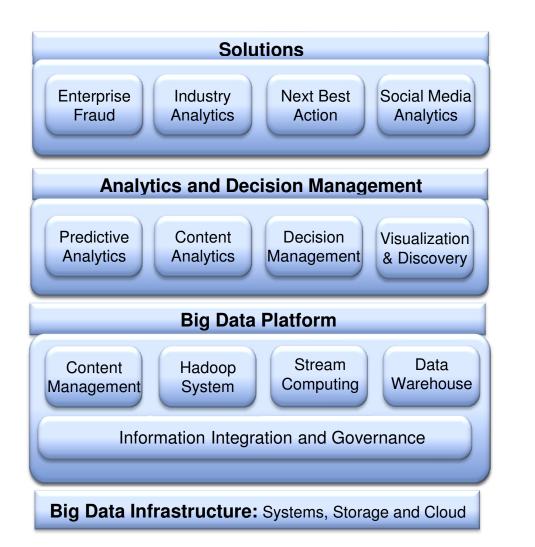




Establishing the Veracity of big data sources

1 in 3 business leaders don't trust the information they use to make decisions

IBM provides a holistic and integrated approach to big data and analytics



Enabling organizations to:

Discover and assemble relevant information

Analyze patterns and predict outcomes

Visualize and explore for answers

Take action and automate processes

Optimize analytical performance and IT costs

Manage, govern & secure information

IBM Big Analytics



Next wave of analytics harnesses the value of the new mix of information

- Visualize and explore the variety, velocity and volume of big data
- Apply advanced analytics to uncover patterns previously hidden
- Blend traditional structured information with data previously unavailable
- Optimize access and delivery to take insight to action
- Extend existing capabilities to address specific analytic applications





Big Data Platform Move the Analytics Closer to the Data

New analytic applications drive the requirements for a big data platform

- Integrate and manage the full variety, velocity and volume of data
- Apply advanced analytics to information in its native form
- Visualize all available data for adhoc analysis
- Development environment for building new analytic applications
- Workload optimization and scheduling
- Security and Governance

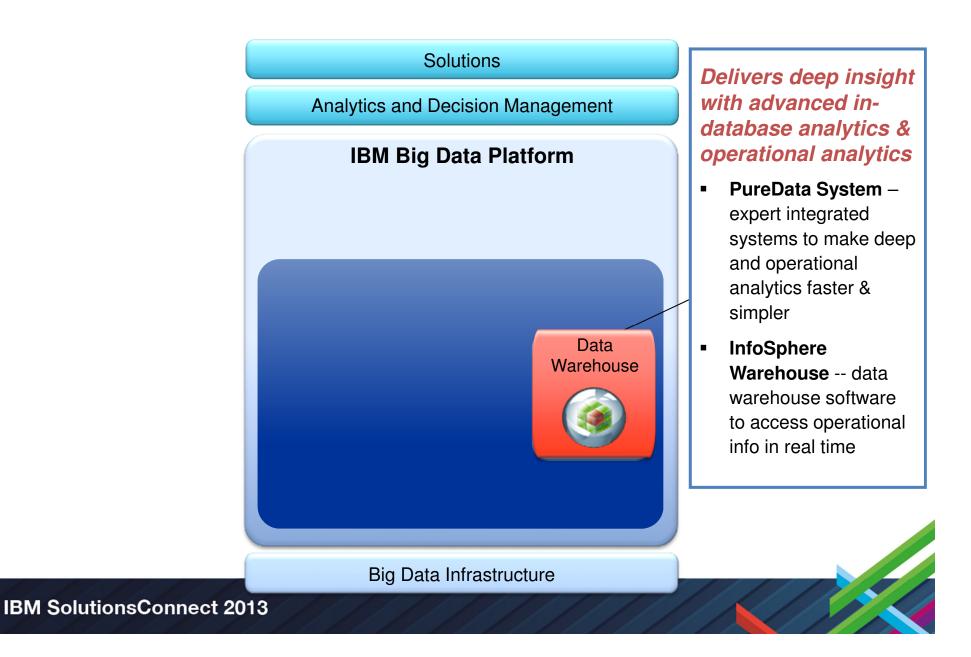






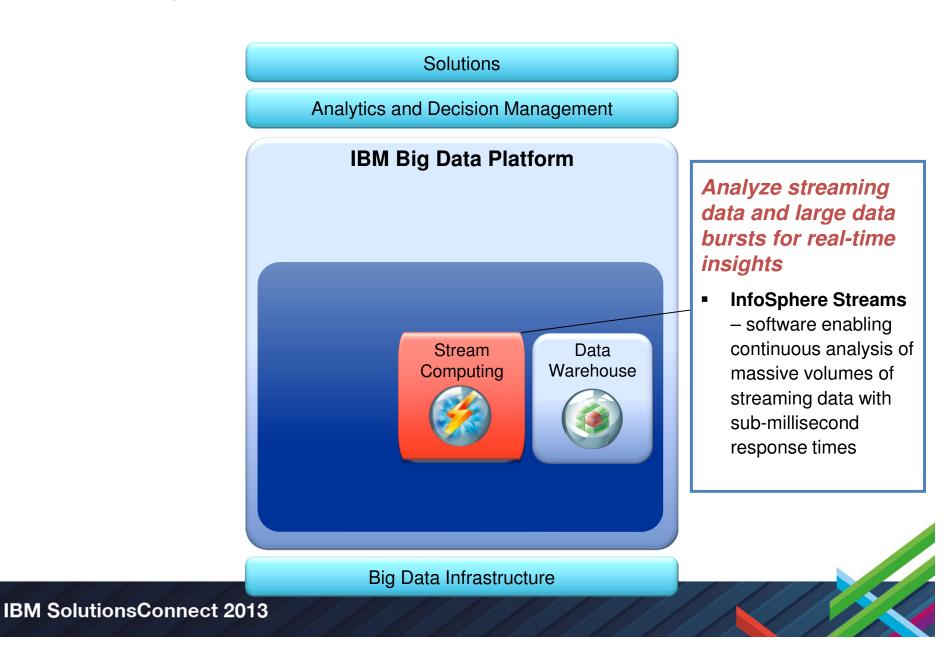






IBM. Ö

The IBM Big Data Platform





Cost-effectively analyze Petabytes of unstructured and structured data

InfoSphere BigInsights -enterprise-grade Hadoop system enhanced with advanced text analytics, data visualization, tools, & performance features for analyzing massive volumes of structured and unstructured data.

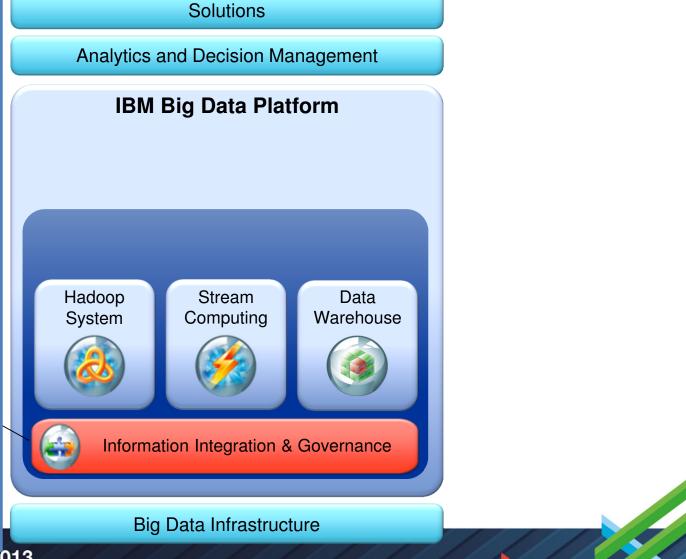




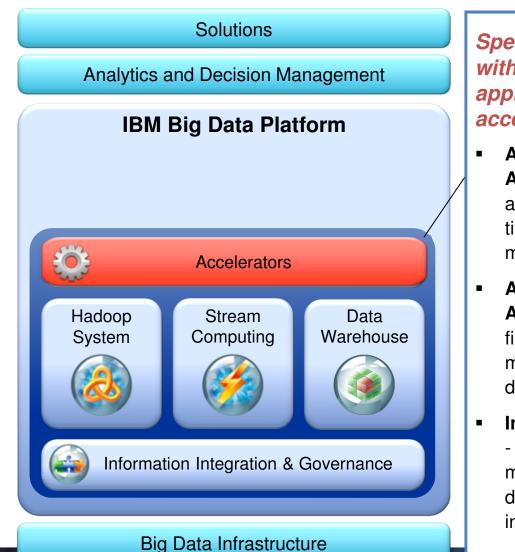
Govern data quality and manage the information lifecycle

- InfoSphere Information Server –Cleanses data, monitors quality and integrates big data with existing systems
- InfoSphere Optim manages business information throughout its lifecycle
- InfoSphere Master Data Management – manages and maintains trusted views of master and reference data
- InfoSphere Guardium

 real-time database
 security and monitoring



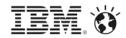




Speed time to value with analytic and application accelerators

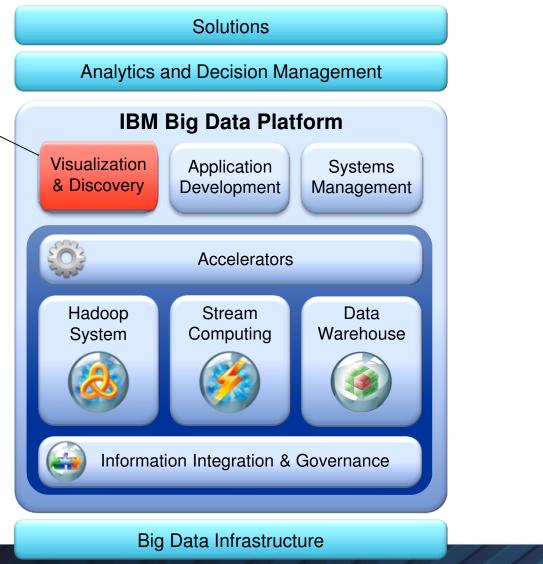
- Analytic Accelerators – text analytics, geospatial, time-series, data mining
- Application
 Accelerators –
 financial services,
 machine data, social
 data, Telco event data
- Industry Models

 comprehensive data models based on deep expertise and industry best practice



Discover, understand, search, and navigate federated sources of big data

 InfoSphere Data Explorer – Discovery and navigation software that provides real-time access and fusion of big data with rich and varied data from enterprise applications for greater insight





Process any type of data

Structured, unstructured, inmotion, at-rest

Built-for-purpose engines

Designed to handle different requirements

Analyze data in motion

- Manage and **govern** data in the ecosystem
- Enterprise data integration

Grow and evolve on current infrastructure







Cisco turns to IBM big data for intelligent infrastructure management

- Optimize building energy consumption with centralized monitoring and control of building monitoring system
- Automates preventive and corrective maintenance of building corrective systems

Uses Streams, InfoSphere BigInsights and Cognos

- Log Analytics
- Energy Bill Forecasting
- Energy consumption optimization
- Detection of anomalous usage
- Presence-aware energy mgt.
 - Policy enforcement

IT professionals face unnecessary delays and costs as they deploy, maintain and update their capabilities.

On average, more than of IT budgets are spent on operations and maintenance*

It can take up to



Μαγ June Jan Feb Apr Mar Nov Dec Sept Oct Aug

software infrastructure **

55% of IT professionals experience downtime, that can last from anywhere between minutes to over a week

when performing an infrastructure upgrade **

000

0

Nearly of organizations fall behind schedule when deploying new IT capabilities ***

| | | 1000 | |
|--|--|------|--|

Sources: * IDC, Analyst Matt Eastwood, IDC Directions Presentation, 2011

" From a commissioned study conducted by Forrester Consulting on behalf of IBM in 2011

*** IBM Market Insights Study - 2011 Business Benchmarking Time-to-Value Study



A New Family of Expert Integrated Systems



PureSystems

Systems with integrated expertise and built for cloud

Built-in Expertise Capturing and automating what experts do – from the infrastructure patterns to the application patterns



Integration by Design

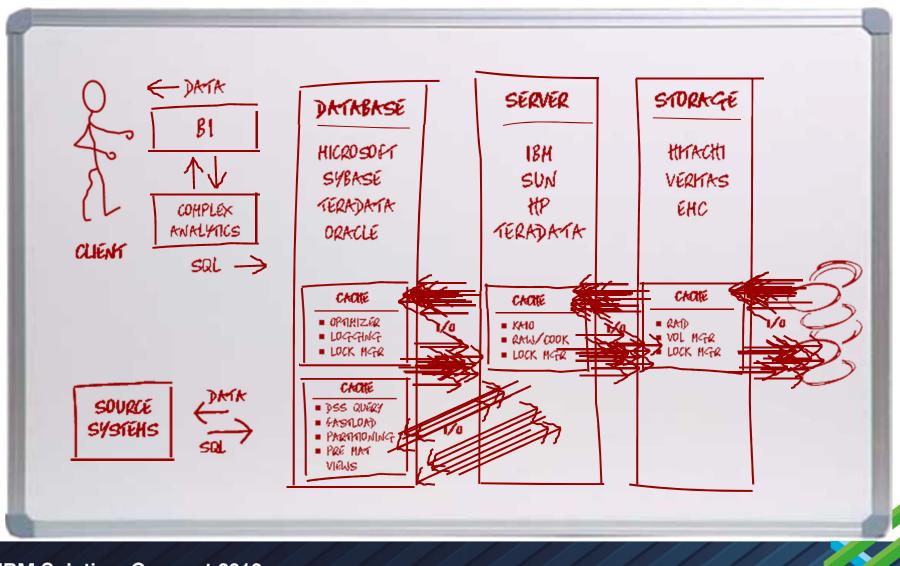
Deeply integrating and tuning hardware and software – in a ready-to-go workload optimized system

Simplified Experience

Making every part of the IT lifecycle easier - with integrated management of the entire system and a broad open ecosystem of optimized solutions

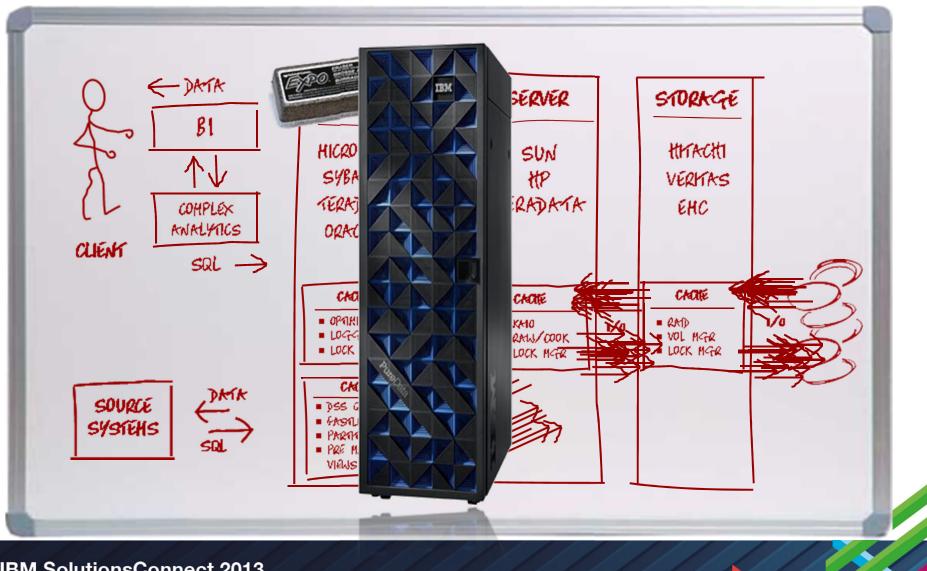
Traditional Data Warehouse Complexity



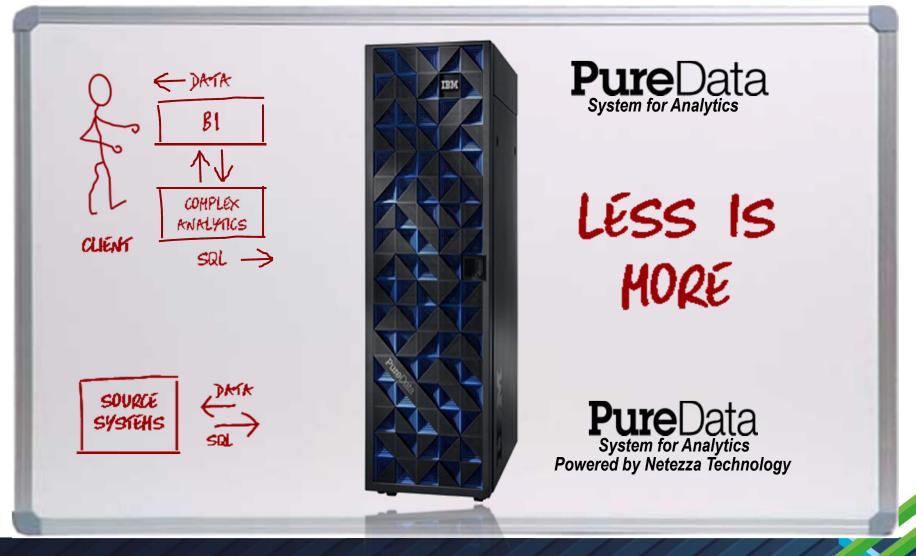


Let's Simplify This...

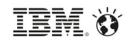




... Move Analytics into the Warehouse with a TRUE **TEM (**) Appliance



Deep Analytics Appliance – Revolutionized Analytics



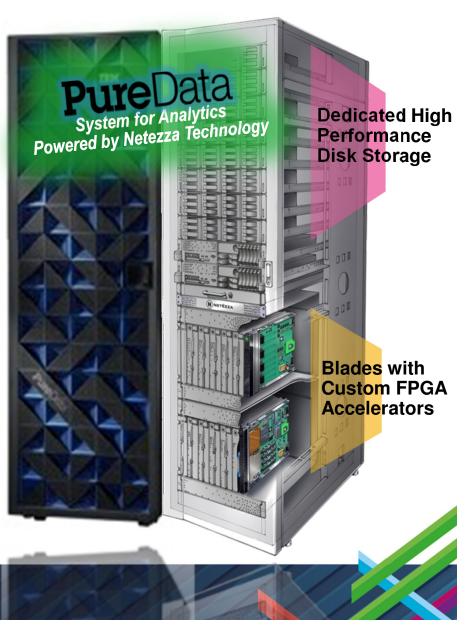
Purpose-built analytics appliance

Speed: 10-100x faster than traditional systems

Simplicity: Minimal admin/mgt. and tuning

Scalability: Peta-scale user data capacity

Smart: High-performance advanced analytics



30% increase in coupon redemption rates

70x more queries on **5x** data

Delivering personalized coupons to shoppers in real time

Store and access 400B market basket records to provide personalized experience

600 predictive models per year, 10X as many as before

"Because of (Netezza's) in-database technology, we believe we'll be able to do 600 predictive models per year (**10X** as many as before) **with the same staff**."

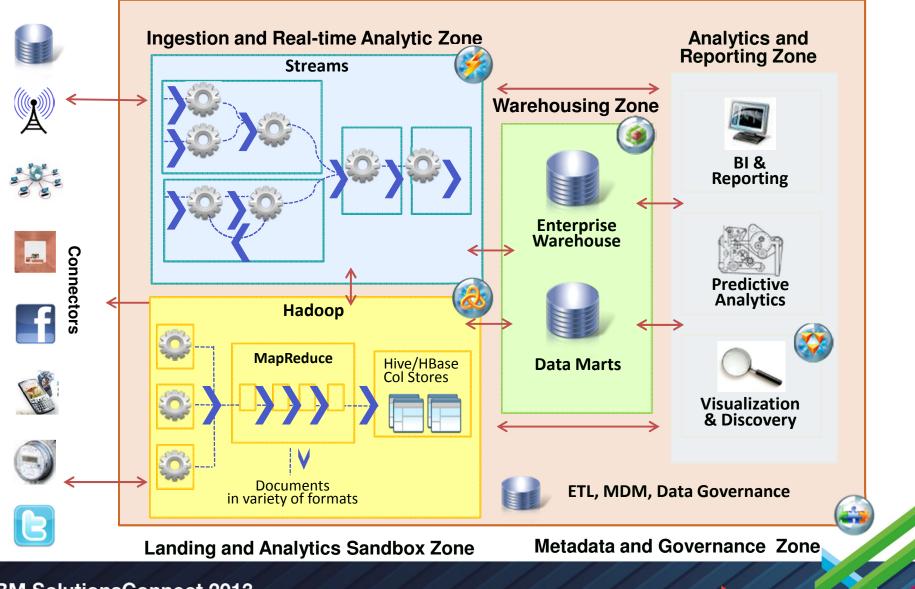
STREET, CONTRACTOR



Eric Williams CIO and executive VP

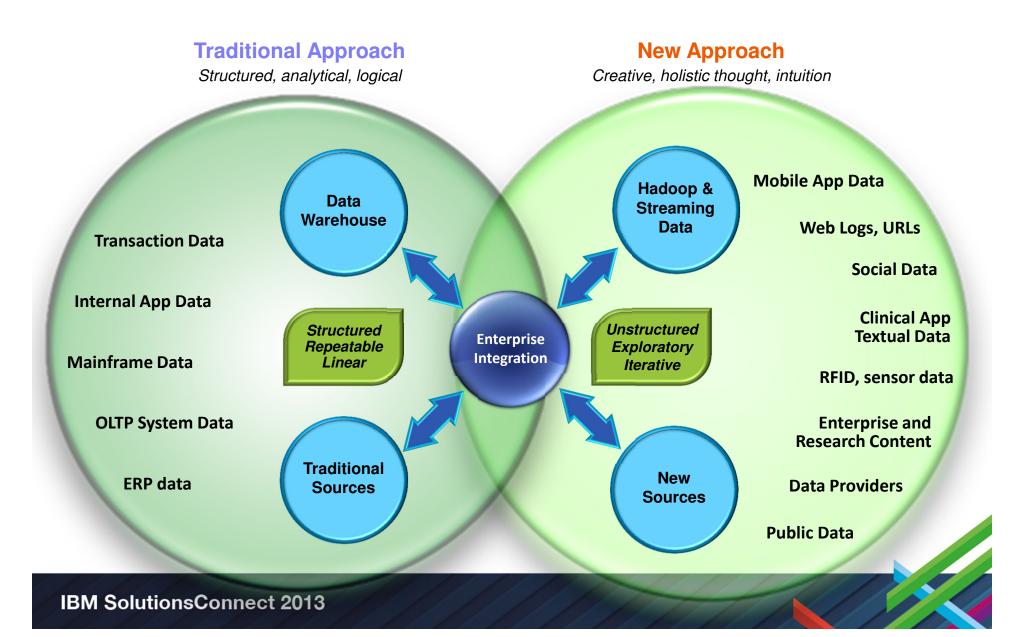
a big data architecture





Expand from enterprise data to big data







Start on Your Big Data Journey Today

Know more:

IBM Big Data: ibm.com/bigdata IBMBigDataHub.com BigDataUniversity.com IBM Institute of Business Value study Books / analyst papers

Schedule an IBM Big Data Workshop

- 1. Best practices
- 2. Use cases
- 3. Business Value Assessment





For more information: ibm.com/bigdata

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